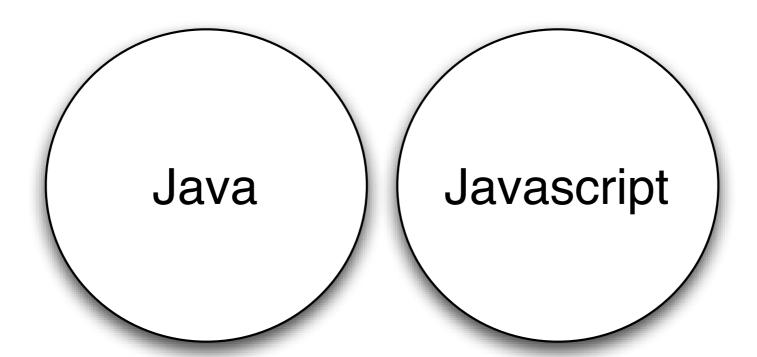
User Interaction: Introduction to Javascript

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- First things first
- Make sure you have a decent foundation in HTML
 - See the reading from Lecture 7
- Make sure you have a copy
 - of the Chrome browser
 - or Firefox with the Firebug plug in installed
 - in order to do development

- What is JavaScript?
 - JavaScript was designed to add interactivity to HTML pages
 - JavaScript is a scripting language
 - A scripting language is a lightweight programming language
 - JavaScript is usually embedded directly into HTML pages
 - JavaScript is an interpreted language (means that scripts execute without preliminary compilation)
 - Everyone can use JavaScript without purchasing a license



- Java and Javascript are not the same
 - They unfortunately share the same name
 - They are different in what they are designed to do
 - They are different in how they came to be
- Java is more powerful and complex

- JavaScript gives web designers a programming tool
 - Simple syntax
 - Supports putting "snippets" of code into web pages
- JavaScript can put dynamic text into an HTML page
 - A JavaScript statement like this:
 - document.write("<h1>" + name + "</h1>")
 - can write the content of a variable into a web page
- JavaScript can react to events
 - A JavaScript can be set to execute when something happens, like when a page has finished loading or when a user clicks on an HTML element

Here is the most confusing thing

An XHTML web page is the data that javascript works with

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but

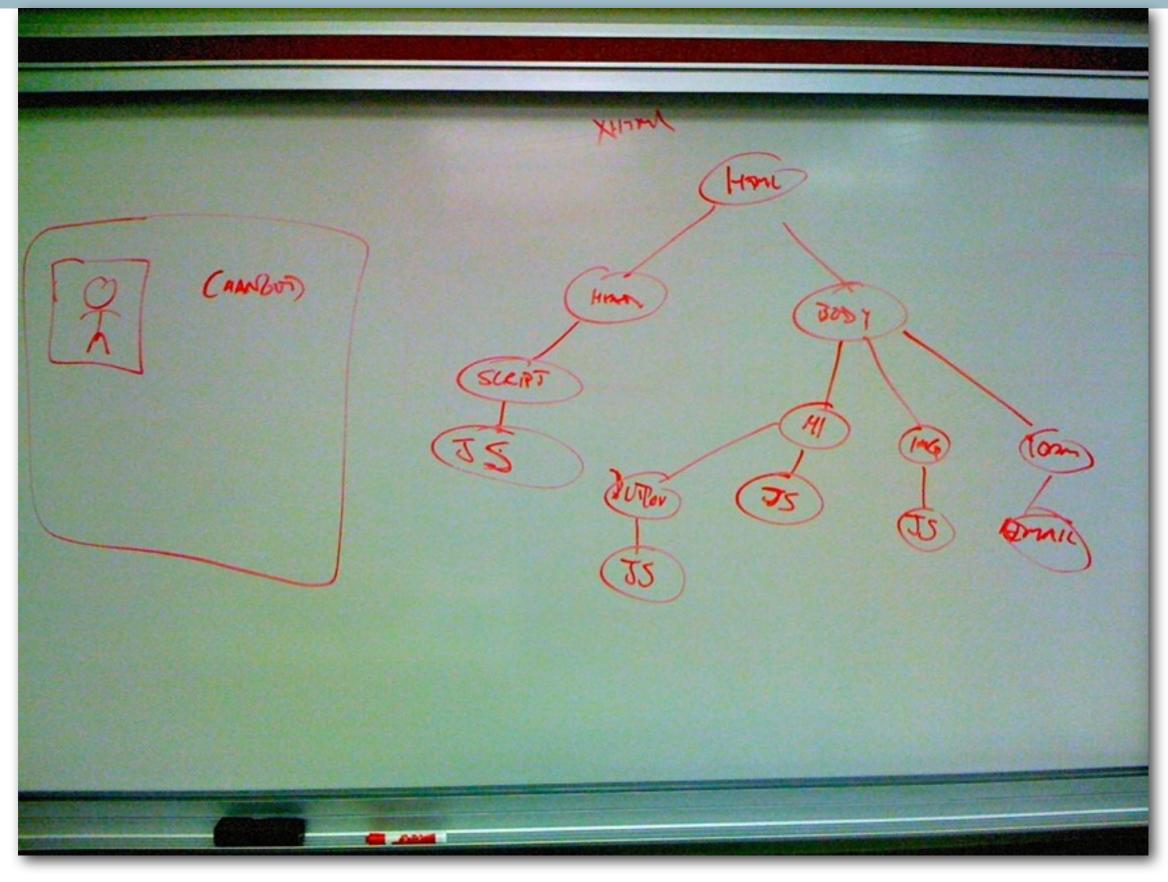
An XHTML web page is also where the javascript is stored

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and

the web browser is constantly redrawing the XHTML as the Javascript changes it.

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- JavaScript can read and write HTML elements
 - A JavaScript can read and change the content of an HTML element
- JavaScript can be used to validate data
 - A JavaScript can be used to validate form data before it is submitted to a server.

- get a Hello World running
 - This eliminates errors related to your hosting provider and web set up
 - It ensures that you have resources necessary on a web host
 - Hopefully this was solved in Assignment 01

- Let's put some Javascript in it
 - <script> tag
 - encloses javascript code that is run by the browser

- document.write()
 - when this command is run
 - the parameter is inserted into the html document just like it was written there without any javascript

